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DOCUMENT-IDENTIFIER: JP 61106516 A

TITLE: HYPOGLYCEMIC AGENT

PUBN-DATE: May 24, 1986

INVENTOR-INFORMATION:

NAME
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ASSIGNEE-INFORMATION:

NAME	COUNTRY
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APPL-NO: JP59227159

APPL-DATE: October 29, 1984

INT-CL (IPC): A61K035/78

US-CL-CURRENT: 514/54

ABSTRACT:

PURPOSE: A hypoglycemic agent containing a polysaccharide which is a water-soluble component of a plant belonging to *Dioscorea* genus, *Dioscoreaceae* family, as an active component.

CONSTITUTION: The raw or dried rhizome or propagule of a plant belonging to *Dioscorea* genus, *Dioscoreaceae* family (e.g. *Dioscorea japonica*, *Dioscorea batatas*, *Dioscorea* *bulbifera*, *Dioscorea gracillima*) is crushed or pulverized, and extracted with water or aqueous organic solvent (e.g. methanol). The amount of the extractant is 1.5∼4 times volume of the raw material. The extracted liquid is concentrated and dried under reduced pressure, and further purified to obtain the polysaccharide useful as the active component. A hypoglycemic agent having little side effect can be prepared by using said polysaccharide as the active component. Dose: 10∼300mg, preferably 30∼100mg of the active component daily in 2∼3 divided doses, in the form of an oral drug such as tablet, capsule, syrup, etc., or an injection.

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DERWENT-ACC-NO: 1986-173316

DERWENT-WEEK: 198627

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TITLE: Hypoglycaemic drug - contains aq. soln. of polysaccharide extracted from plants, e.g. dioscoreaceae

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61106516 A	May 24, 1986	N/A	004	N/A
JP 87007172 B	February 16, 1987	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 61106516A	N/A	1984JP-0227159	October 29, 1984

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ABSTRACTED-PUB-NO: JP 61106516A

BASIC-ABSTRACT:

Plant of Dioscoreaceae *Dioscorea* which contains polysaccharides of this invention is eq. *Dioscorea Japonica* *Thanb*, *Dioscorea Batatas* *Deone*, *Dioscorea bulbifera* Linn., *Dioscorea Gracillima* Miq., *Dioscorea Asclepiadea* Prain et Burkhill. Rhizoma, etc. of the above plant is washed with water, crushed, and extd. by (1.5-4 fold against material) water or aq. organic solvent. As organic solvent, below 30% of lower alcohol eq. meOH or etOH is used.

Extn. is increased by heating. Extracted soln. is concd. in vacuo, below 40 deg.C. n-buOH may be added if foaming is occurred. Obtd. powder is poured into 20-40 fold of water and dissolved with stirring. Insoluble matter is removed by vac-filtration, and 4-6 fold of meOH or etOH is dropped to filtrate, and allowed to stand to form enough ppte. ppte is recovered by vacuum-filtration, and washed with mixed soln. (H₂O:etOH = 1:5), and vacuum dried.

Obtd. polysaccharides have excellent hypoglycemic effect and have scarcely side effects. Oral dose for adult is 10-300 mg/day, pref. 30-100 mg/day (divided

2-3 times).

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HYPOGLYCAEMIC DRUG CONTAIN AQUEOUS SOLUTION
POLYSACCHARIDE EXTRACT
PLANT

DERWENT-CLASS: B04

CPI-CODES: B04-C02D; B12-H05;

CHEMICAL-CODES:

Chemical Indexing M1 *01*
Fragmentation Code
M423 M781 M903 P816 V735

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-074569